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10/032,573 '	01/02/2002	Peter Goth Engel	2405.0144-01	5993
22852 75	90 11/17/2003		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			CHAUDHRY, SAEED T	
LLP 1300 I STREET	, NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			1746	
			DATE MAILED: 11/17/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)	IVC
Office Action Summan		10/032,573	ENGEL ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Saeed T Chaudhry	1746	
Period	The MAILING DATE of this communication for Reply	app ars on the cover sheet w	ith th correspond nce address	
THE - Ex aft - If t - If n - Fa - An	HORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATION In the may be available under the provisions of 37 CFI or SIX (6) MONTHS from the mailing date of this communication has period for reply specified above is less than thirty (30) days, a ground for reply is specified above, the maximum statutory perior or period for reply within the set or extended period for reply will, by stay reply received by the Office later than three months after the mand patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a r i. a reply within the statutory minimum of thin riod will apply and will expire SIX (6) MON tatute, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communi BANDONED (35 U.S.C. § 133).	cation.
1)[\inf	Responsive to communication(s) filed on 0	2 September 2003.		
2a)[his action is non-final.		
3)[Since this application is in condition for allo closed in accordance with the practice und			ts is
Disposi	tion of Claims	•		
4)⊠	Claim(s) <u>10-23</u> is/are pending in the application	ation.		
	4a) Of the above claim(s) is/are with	drawn from consideration.		
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>10-23</u> is/are rejected.		•	
7)	, , , , ,	• .		
8)[_	Claim(s) are subject to restriction ar	nd/or election requirement.		
Applica	tion Papers			
· · · · · ·	The specification is objected to by the Exan			
10)	The drawing(s) filed on is/are: a)	· · · · · · · · · · · · · · · · · · ·	•	
	Applicant may not request that any objection to	-		
44)	Replacement drawing sheet(s) including the cor		• •	• •
	The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action of form P1O-15	2.
_ <u></u>	under 35 U.S.C. §§ 119 and 120			
*	Acknowledgment is made of a claim for for) All b) Some * c) None of: 1. Certified copies of the priority documed Certified copies of the priority documed Society of the certified copies of the papplication from the International Bursee the attached detailed Office action for a	nents have been received. The sents have been received in A periority documents have been reau (PCT Rule 17.2(a)). The sent sent sent sent sent sent sent sen	pplication No received in this National Stage	
	Acknowledgment is made of a claim for dom since a specific reference was included in the 37 CFR 1.78. a) The translation of the foreign language	e first sentence of the specific provisional application has be	ation or in an Application Data een received.	Sheet.
	Acknowledgment is made of a claim for dom reference was included in the first sentence of			
Attachme	nt(s)			
2) 🔲 Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(5) 🔲 Notice of Ir	summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)	<u> </u>



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DETAILED ACTION

Applicant's amendments and remarks filed September 2, 2003 have been acknowledged by the examiner and entered. Claims 1-9 have been canceled and claims 10-23 are pending in this application for consideration.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (c) he has abandoned the invention.
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- (f) he did not himself invent the subject matter sought to be patented.
- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

Claim 23 is rejected under 35 U.S.C. 102(b) as being anticipated by Harpold.

Harpold (4,826,539) discloses a process for cleaning printing screen by pumping organic solvent from a reservoir to the screen; brushing the screen surface to be cleaned to loose the ink on the surface; drawing a vacuum on said surface via vacuum line to remove ink and solvent; and separating liquid from the gas flow (see claims and abstract). To clean a printing screen, one locates the screen in clean up tray, leaning it against light panel. One first depresses pump pedal 82, holding vacuum tool 42 over tray 60, and holds pump pedal 82 down until solvent begins

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flow out of brush attachment 42. One then simultaneously depresses pump 82 and vacuum pedal and vacuum pedal 83 while scrubbing the screen with brush attachment 42. It is helpful to occasionally release pump pedal 82 while continuing to depress vacuum pedal 83 to remove excess solvent from the screen (see col. 5, lines 51-61). Means for drawing vacuum and pumping organic solvent either independently of one another or simultaneously to thereby facilitate directing more solvent on the work surface to be cleaned initially and drawing more vacuum towards the end of the operation to facilitate final clean up (see claim 31). The reference discloses in claim 31 that vacuuming and pumping solvent are performed independently of one another, so solvent is pumped first and then solvent is vacuumed later. Therefore, claim 23 is anticipated by Harpold.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 10-13 and 15-22 are rejected under 35 U.S.C. § 103 as being unpatentable over Harpold in view of Gremminger.

Harpold was discussed <u>supra</u>. However, the reference fails to disclose specific range of gas flow rate or nozzle has a rectangular shape or a length to width ratio of the rectangular nozzle.

Gremminger (4,584,736) an analogous art for vacuum cleaning discloses a process for cleaning fabric with a suction nozzle. Depending upon the particular application of the surface cleaning, the length of the suction nozzle may vary from about 3 centimeter to about 100 centimeters. The vacuum unit may comprise a conventional device such as a vacuum pump, capable of creating suction. The vacuum unit may cause a suction force equivalent to a water column of 2.8 meters to develop at the suction nozzle (see col. 3, lines 12-29). The reference discloses applying a suction nozzle directly to the cleaning surface and an almost air tight seal extending towards the front of the cleaning head is formed between the suction region of the suction nozzle and the surroundings. This increases the suction force thereby enhancing the cleaning effect (see col. 1, lines 9-20 and col. 4, lines 19-28).

It would have been obvious at the time applicant invented the claimed process for cleaning screen fabric to incorporate a rectangular shape nozzle for vacuuming solvent from the screen as disclosed by Gremminger for the purpose of covering greater area for vacuuming and for faster removal of the solvent from the screen. Gremminger discloses that depending upon the particular application of the surface cleaning apparatus, the length of the suction nozzle 4 may vary from about 3 to 100 centimeters (see col. 3, lines 19-20). Therefore, one of ordinary skill in the art would manipulate the length and width ratio for removing solvent from the screen for better and efficient results. Gremminger the vacuum unit may cause a suction force equivalent to a water column of 2.8 meters to develop at the suction nozzle (see col. 3, lines 12-29). Therefore,

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one of ordinary skill in the art would manipulate the gas flow rate on the screen and vacuum pressure for better and efficient results. Since one would expect that higher rate would remove solvent faster than the slower rate. Harpold discloses that dirty screens are cleaned by placing them in a sink, rinsing them with a solvent which will dissolve the ink, removing the screen and then flushing the solvent and ink down the drain with a stream of water (see col. 1, lines 19-22). Therefore, one of ordinary skill in the art would rinse the solvent with water to remove the solvent from the screen.

Claim 14 is rejected under 35 U.S.C. § 103 as being unpatentable over Harpold in view of Renholt.

Harpold was discussed <u>supra</u>. However, the reference fails to disclose vacuum is driven by a compressed air.

Renholt (3,971,096) discloses A series of types of compressed air-driven suction devices, most often termed ejector vacuum cleaners, is previously known and intended for use in strongly contaminated localities as for instance in process plants, shipyards, engine rooms etc. Vacuum cleaners are usually driven by electricity, with resulting heavy weight and complicated equipment necessary produce the suction effect. In cases where a particular strong suction effect has been needed, it has also been suggested, as indicated above, to use pressurized air-driven ejector vacuum cleaners for the purpose (see col. 1, lines 5-15).

It would have been obvious at the time applicant invented the claimed process to utilize a compressed air driven suction device as disclosed by Renholt in the process of Harpold for the purpose of strong suction effect.

Response to Applicant's Arguments

Applicant argued that Harpold fails to disclose or suggest the instant recited first cleaning step conducted without applying suction to the screen fabric. Harpold further fails to disclose or suggest the instant recited removal, after the first cleaning step is completed, of cleaning liquid remaining on the clean screen fabric by moving a suction nozzle across the clean screen fabric to suck off and entrain cleaning liquid remaining on the fabric.

This argument is not persuasive because Harpold clearly disclose the steps as recited in the claim 23. Harpold disclosed in the claim 31 that "means for drawing and pumping said organic solvent either independently of one another or simultaneously to thereby facilitate directing more solvent on the work surface to be cleaned initially and drawing more vacuum towards the end of the operation to facilitate final clean up". Therefore, Harpold suggested to first clean with solvent and then removing solvent and loosened ink by vacuum. Therefore, Harpold anticipate the claimed process.

The applicant argued that Germminger has the same deficiencies as Harpold and the combined teachings of the references would not suggest applicant's claimed invention to one of ordinary skill in the art.

This argument is not persuasive because Germminger was cited to show the rectangular suction nozzle and for suction force.

The applicant argued that both the references disclose an electric motor for driving the suction device, and neither of the reference relied upon disclose the use of a compressed-air driven suction device.

This argument is deemed to be moot in view of the new grounds of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saeed T. Chaudhry whose telephone number is (703) 308-3319. The examiner can normally be reached on Monday-Friday from 9:30 A.M. to 5:00 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Randy Gulakowski, can be reached on (703)-308-4333. The fax phone number for non-final is (703)-872-9310 and for after final is 703-872-9311.

When filing a FAX in Gp 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

Saeed T. Chaudhry Patent Examiner November 12, 2003

PAMDY GULAKOWSKI
SUPERVISORY MITENT EXAMINER
TECHNOLOGY CENTER 1700